





How to change front wheel bearing on Alfa Romeo 159 Sportwagon – replacement guide



VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
ALFA ROMEO 159 (939_) 2.2 JTS (939AXB1B, 939AXB11), ALFA ROMEO 159 Sportwagon (939_) 2.2 JTS (939BXB1B, 939BXB11), ALFA ROMEO BRERA (939_) 2.2 JTS (939.DXB11), ALFA ROMEO SPIDER (939_) 2.2 JTS (939EXB1B, 939EXB11)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – ALFA ROMEO 159 SPORTWAGON. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # E14
- Drive socket # 19
- Drive socket # 21
- Drive socket # 36
- HEX bit No.H4.
- HEX bit No.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Flat Screwdriver
- Tap wrench
- Crow bar
- Rubber mallet
- Hydraulic transmission jack
- Wheel chock

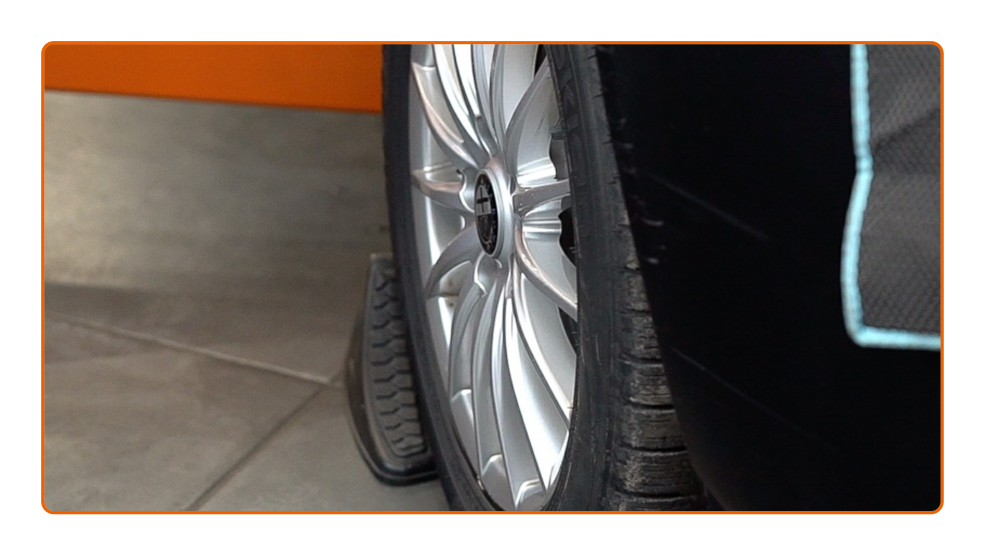


Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. AUTODOC experts recommend:

- Do not re-use the bearing assembly of your Alfa Romeo 159 (939) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

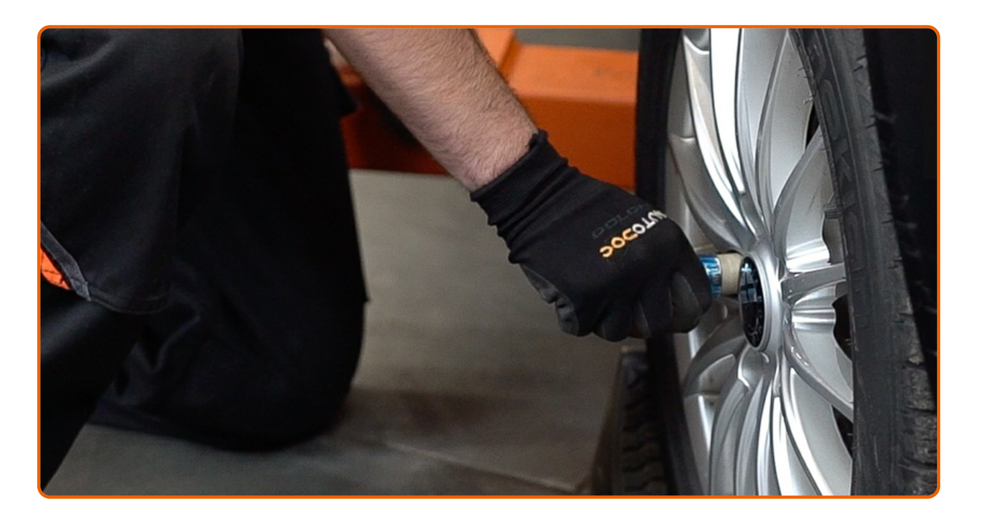
REPLACEMENT: WHEEL BEARING – ALFA ROMEO 159 SPORTWAGON. RECOMMENDED SEQUENCE OF STEPS:

1



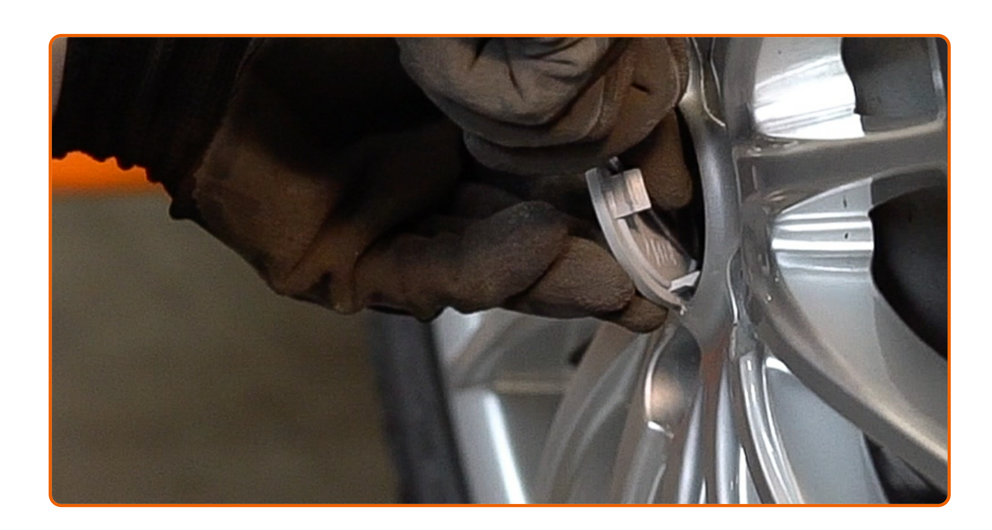
Secure the wheels with chocks.

2



Loosen the wheel mounting bolts. Use wheel impact socket #17.

3



Remove the hub bearing protection cap. Use a flat screwdriver.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. Tip:

- Some cars are not equipped with wheel hub caps.

4



Loosen the wheel hub fastener. Use a drive socket #36. Use a tap wrench.

5



Raise the front of the car and secure on supports.

6



Unscrew the wheel bolts.

AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Alfa Romeo 159 Sportwagon

7



Remove the wheel.

8



Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.

9

Disconnect the brake pad wear sensor plug.

Please note!

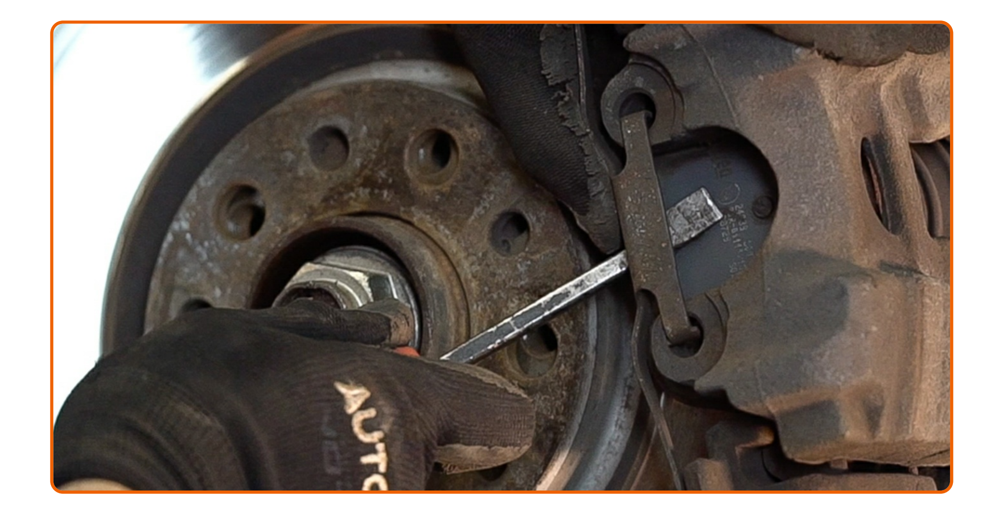
- Some cars are not equipped with the brake pad wear sensor.

10



Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.

11



Detach the brake caliper retaining spring. Use a crowbar.

12

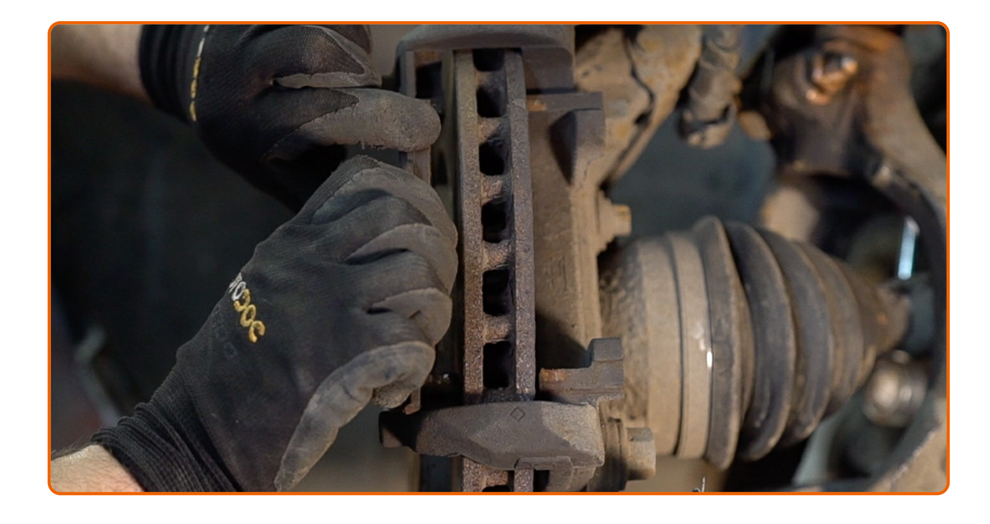


Remove the brake caliper.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

13



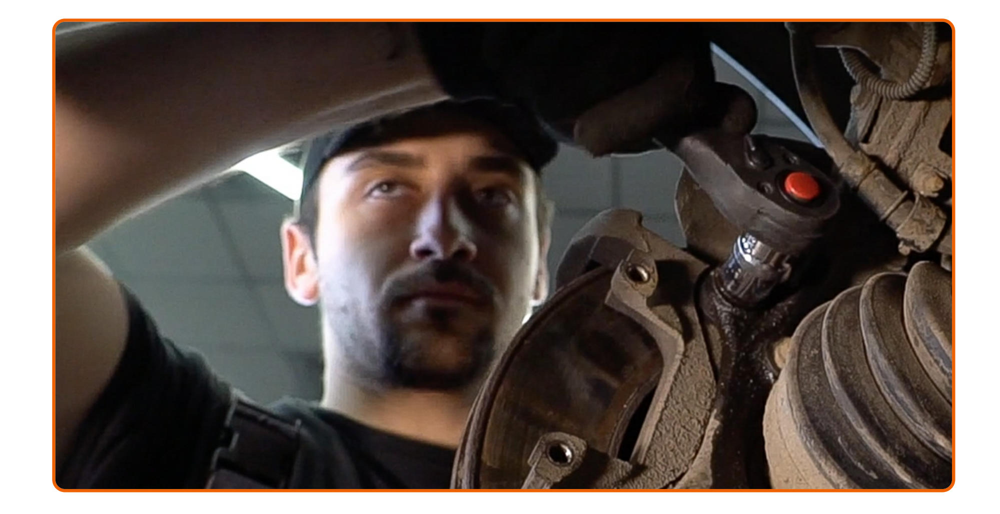
Remove the brake pads.

14



Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

15



Unscrew the caliper bracket fastening. Use a drive socket #19. Use a tap wrench. Use a ratchet wrench.

16

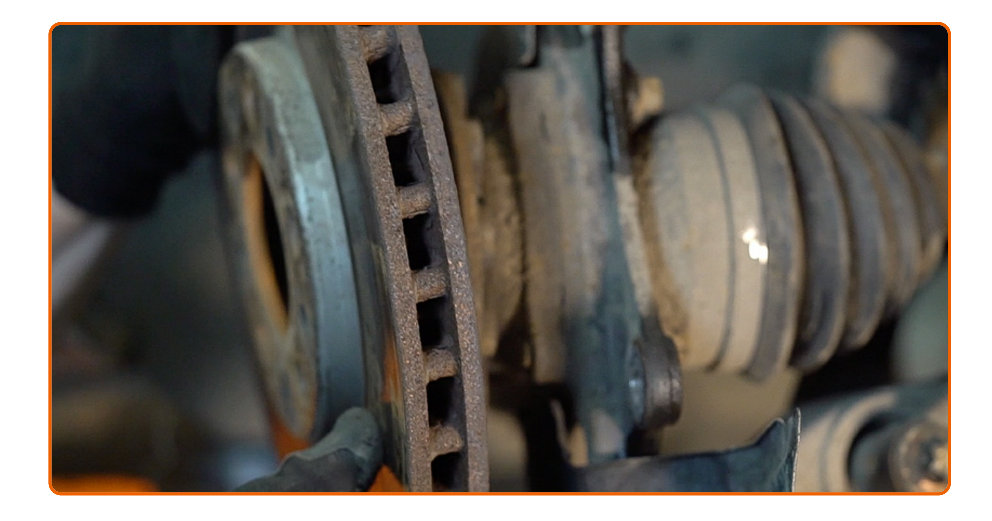


Remove the caliper bracket.

17

Unscrew the brake disc fastening. Use HEX No.H4. Use a ratchet wrench.

18



Remove the brake disc.

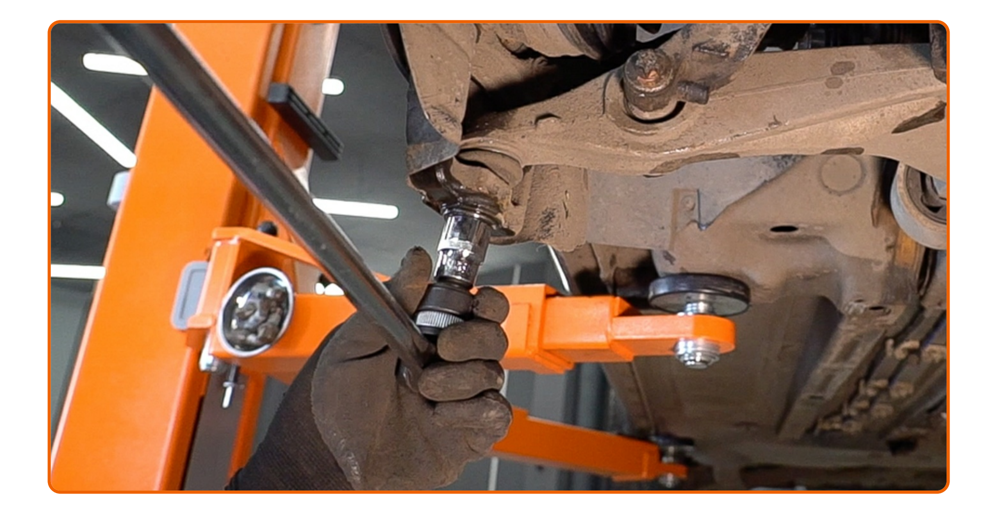
19



Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



20



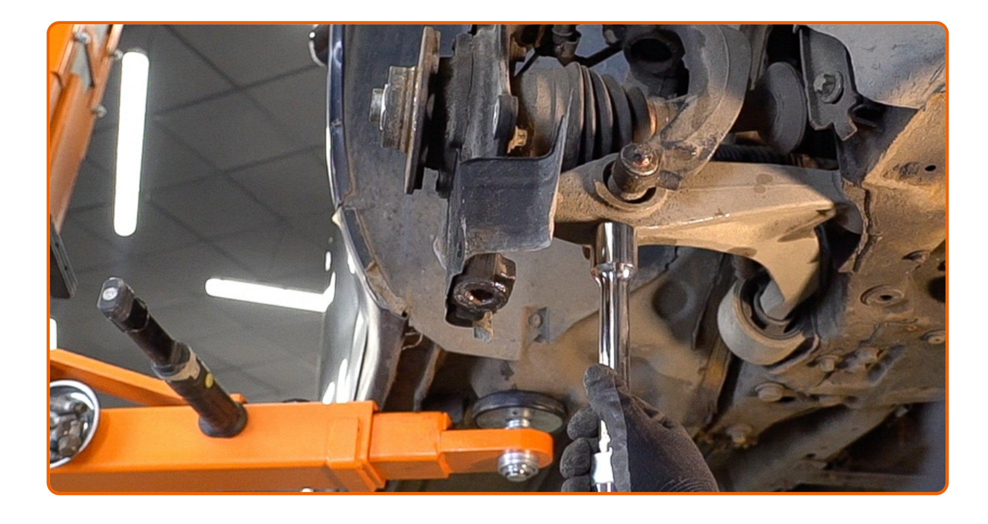
Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #21. Use a tap wrench.

21



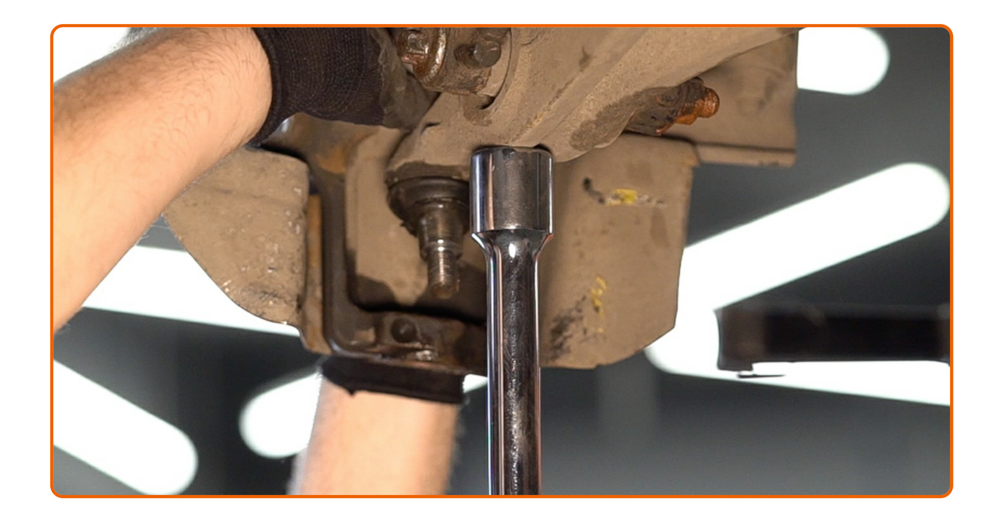
Disconnect the ball joint from the steering knuckle. Use a ball joint puller.

22



Support the arm. Use a hydraulic transmission jack.

23



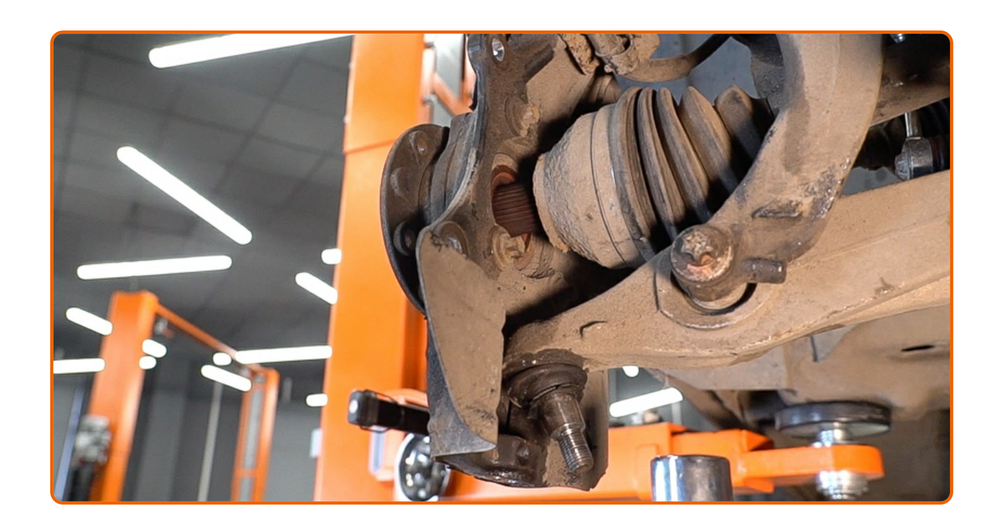
Disconnect the lower arm from the steering knuckle.

24



Unscrew the hub lock nut.

25

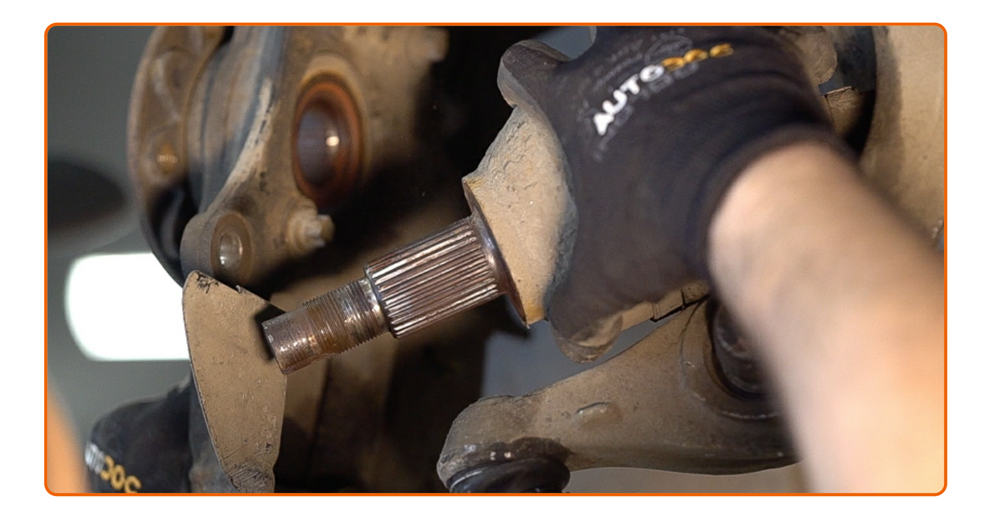


Lower the hydraulic transmission jack by 10-15 cm.

AUTODOC recommends:

- Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

26



Remove the drive shaft from the wheel hub.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. Tip from AUTODOC experts:

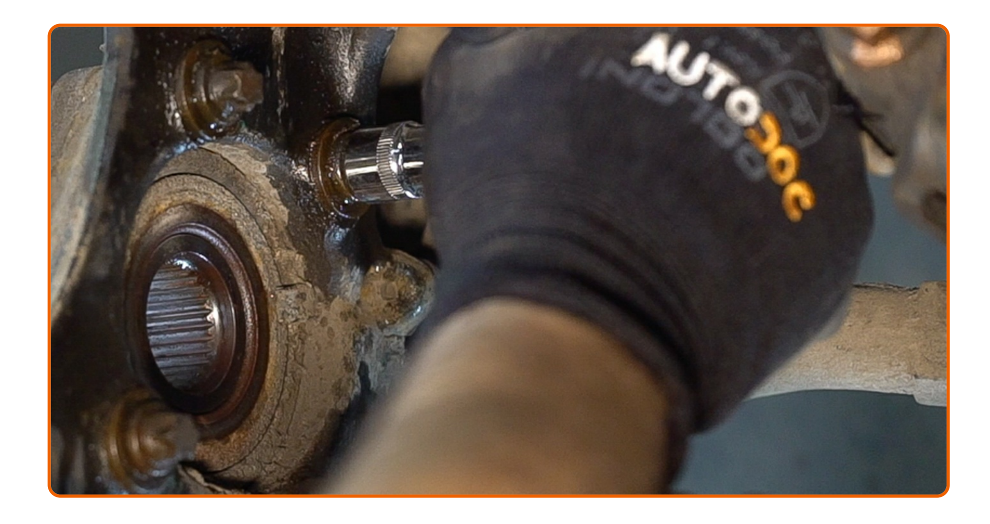
- Make sure that the drive shaft is not unloaded (when the car is jacked).

27



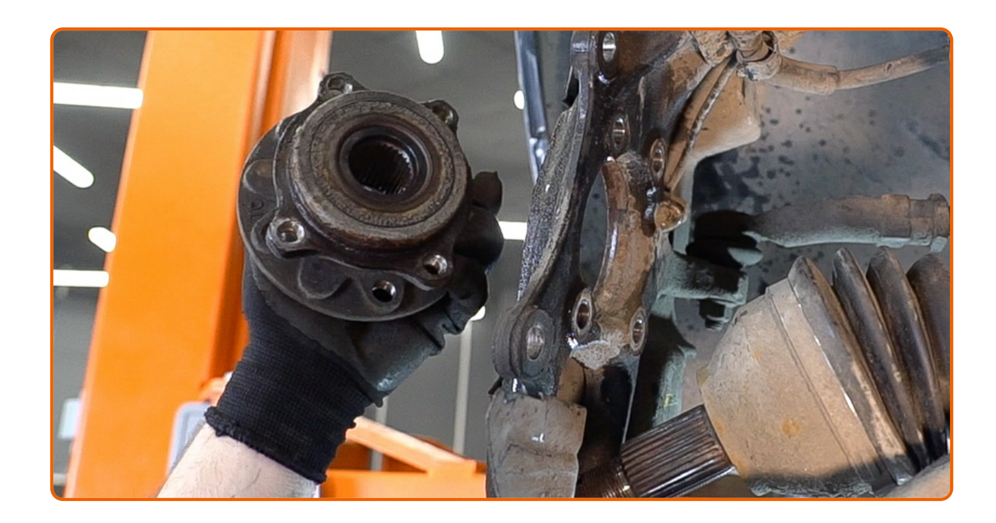
Clean the wheel hub fastener. Use a wire brush. Use WD-40 spray.

28



Unscrew the wheel hub axle nut. Use a drive socket #E14. Use a ratchet wrench. Use a tap wrench.

29



Remove the hub and the bearing together, since they are a sealed unit. Use a crowbar.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. Tip from AUTODOC:

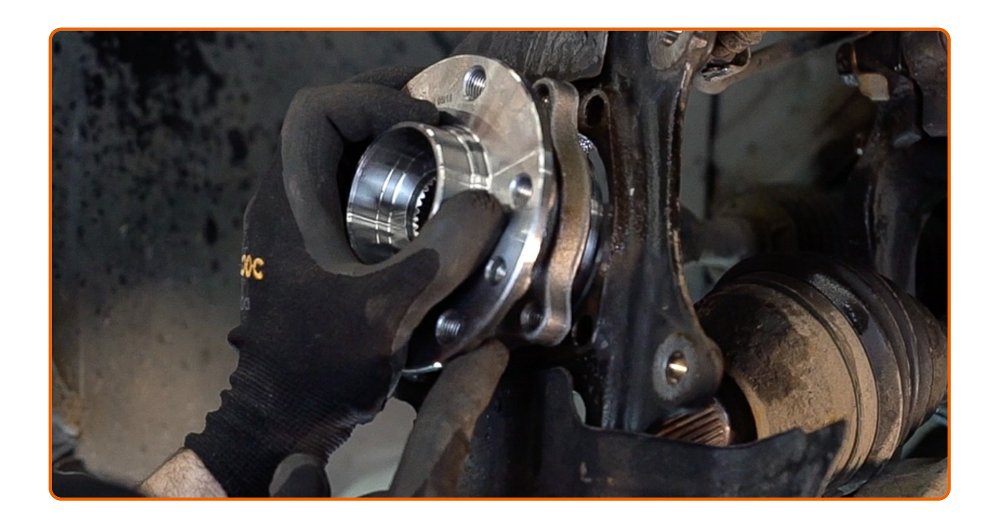
- If necessary, use a rubber mallet.

30



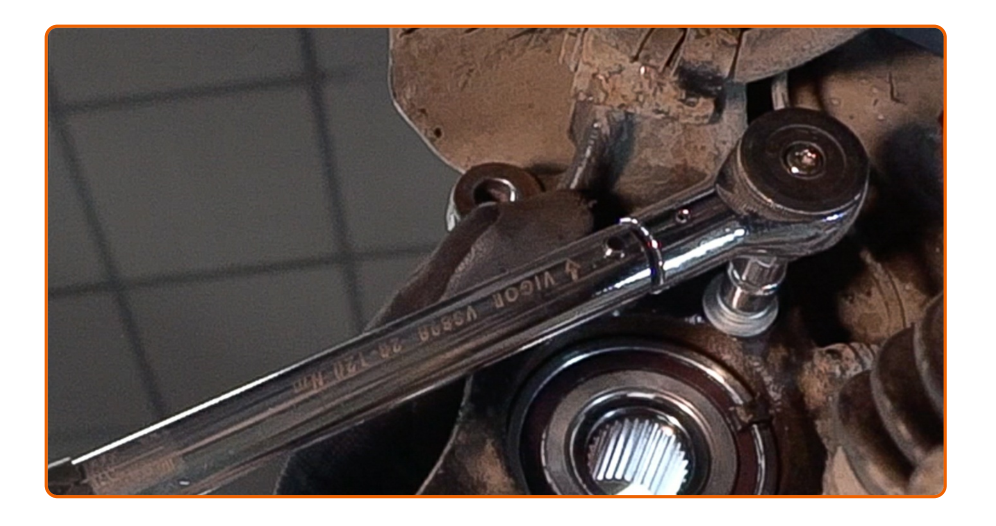
Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.

31



Install the new wheel hub with a bearing.

32



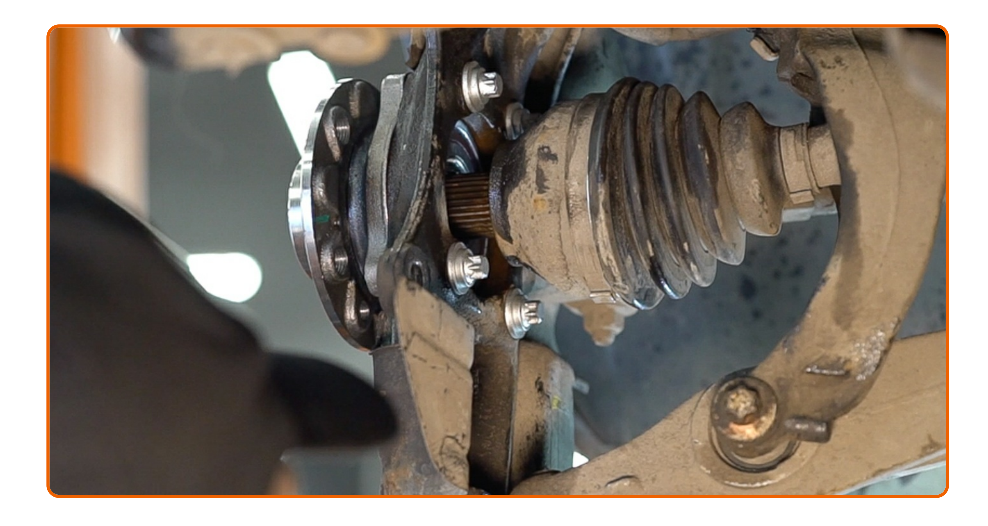
Tighten the hub. Use a drive socket #E14. Use a torque wrench. Tighten it to 80 Nm torque.

33



Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.

34



Mount the drive shaft into the wheel hub.

35



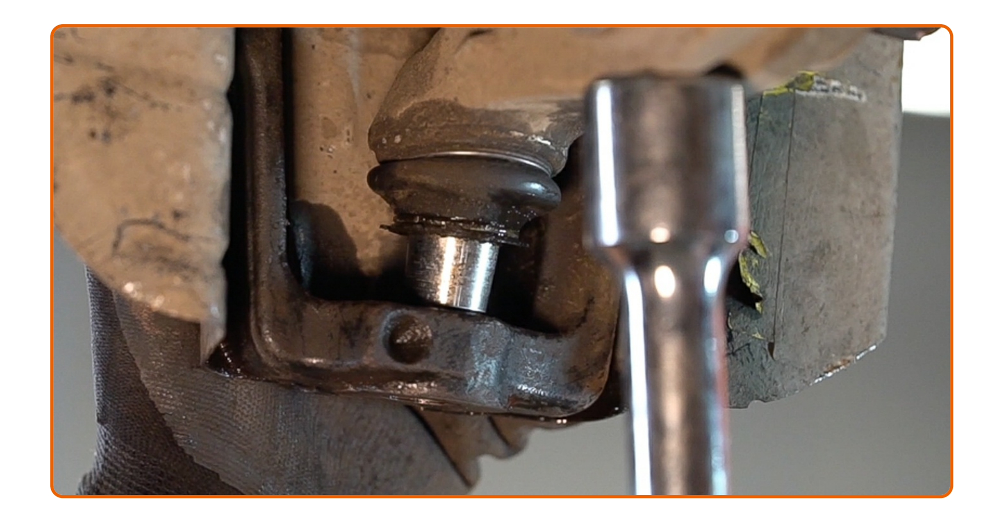
Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

36



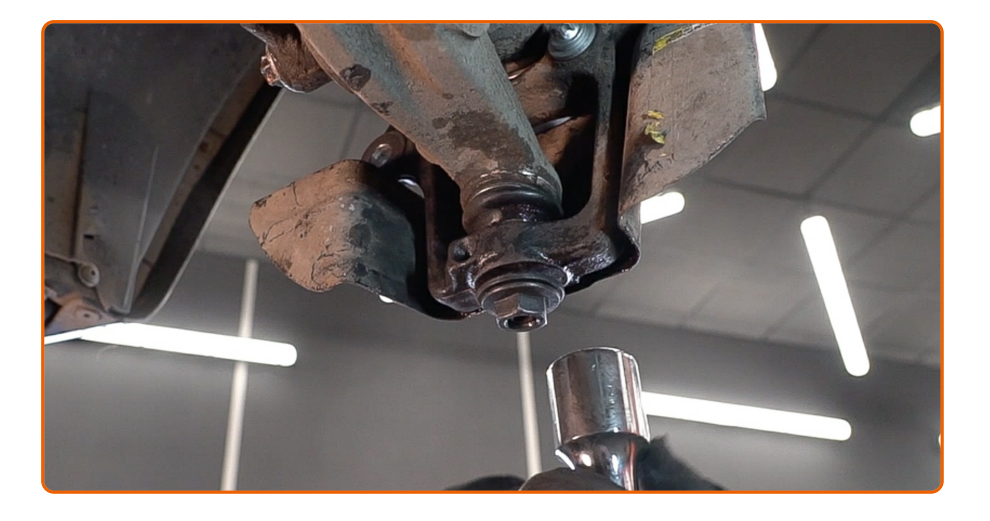
Support the arm. Use a hydraulic transmission jack.

37



Connect the ball joint to the steering knuckle. Connect the lower arm to the steering knuckle.

38

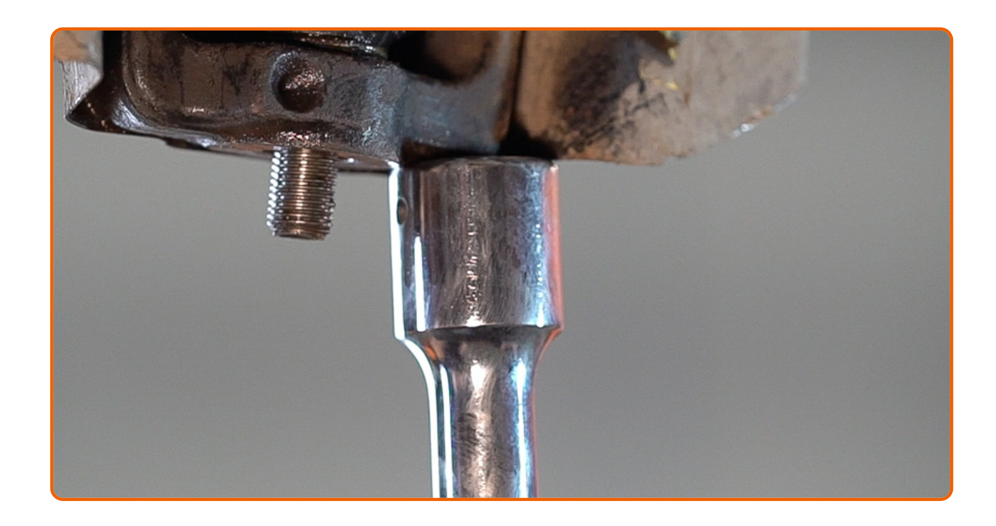


Remove the support from under the arm.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. Professionals recommend:

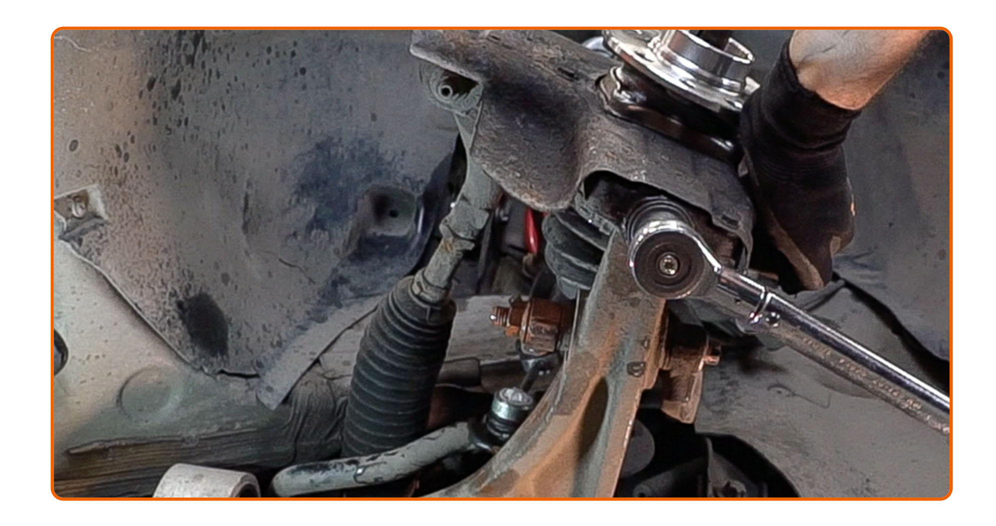
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

39



Prop up the steering knuckle. Use a hydraulic transmission jack.

40



Tighten the ball joint fastener. Use a drive socket #21. Use a torque wrench. Tighten it to 70 Nm torque.

41



Remove the support from under the steering knuckle.

AUTODOC recommends:

- Alfa Romeo 159 Sportwagon – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.



42



Treat the splines of the driveshaft CV joint. Use copper grease.

43



Screw the wheel hub lock nut.

44



Treat the hub where it contacts the brake disk. Use copper grease.

45



Install the brake disc.

46

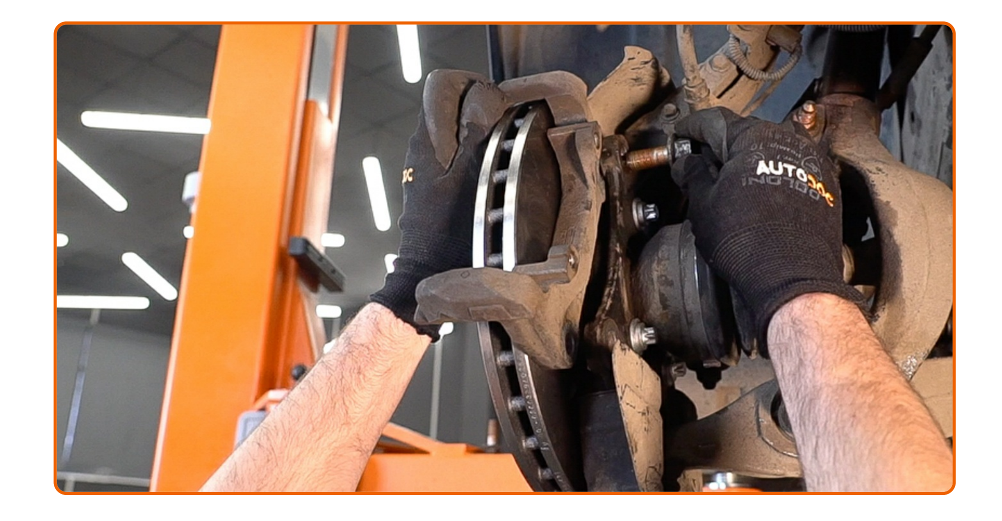


Tighten the brake disc fastening. Use HEX No.H4. Use a torque wrench. Tighten it to 9 Nm torque.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. AUTODOC experts recommend:

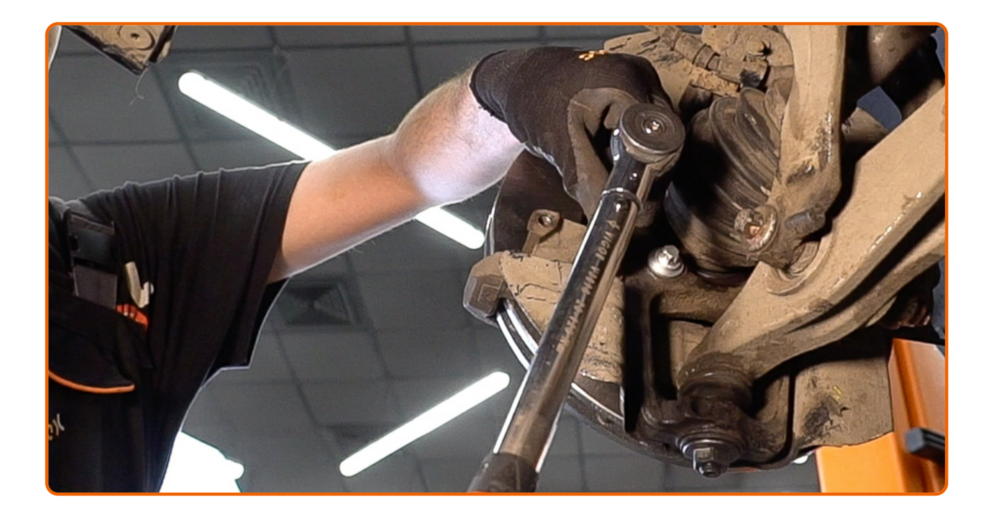
- You might need other tools.

47



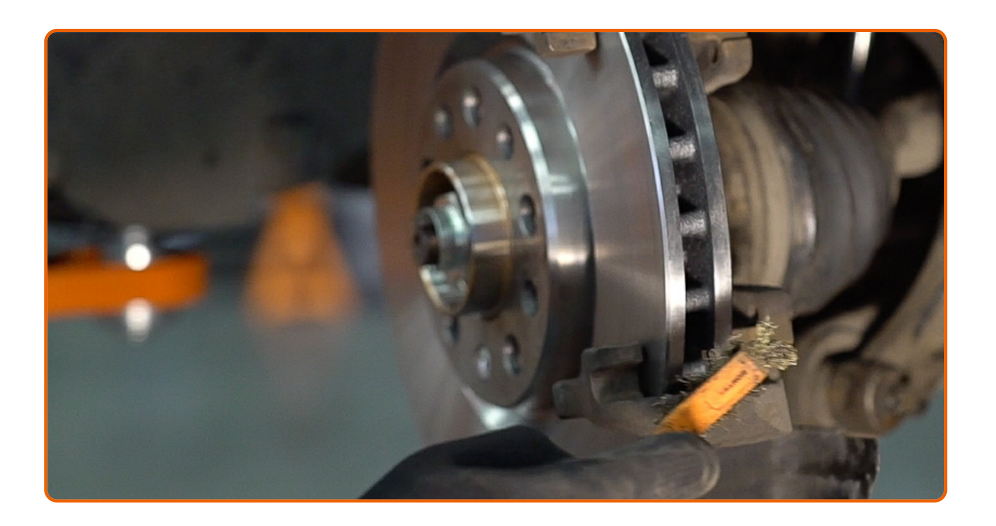
Install the brake caliper bracket.

48



Tighten the brake caliper bracket. Use a drive socket #19. Use a torque wrench. Tighten it to 70 Nm torque.

49



Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

AUTODOC recommends:

- Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. After applying the spray, wait a few minutes.
- Make sure the disc surface is clean before installing the pads.

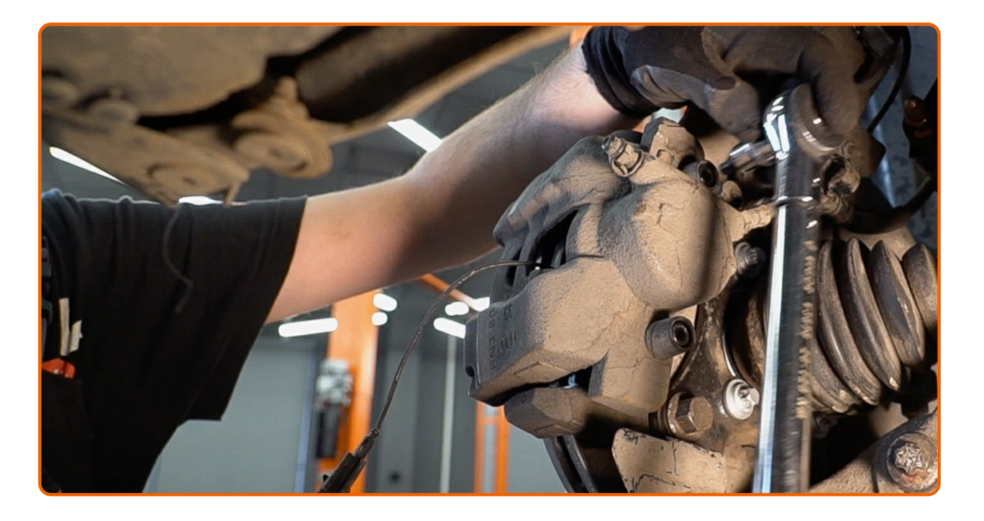


50



Install the brake pads.

51



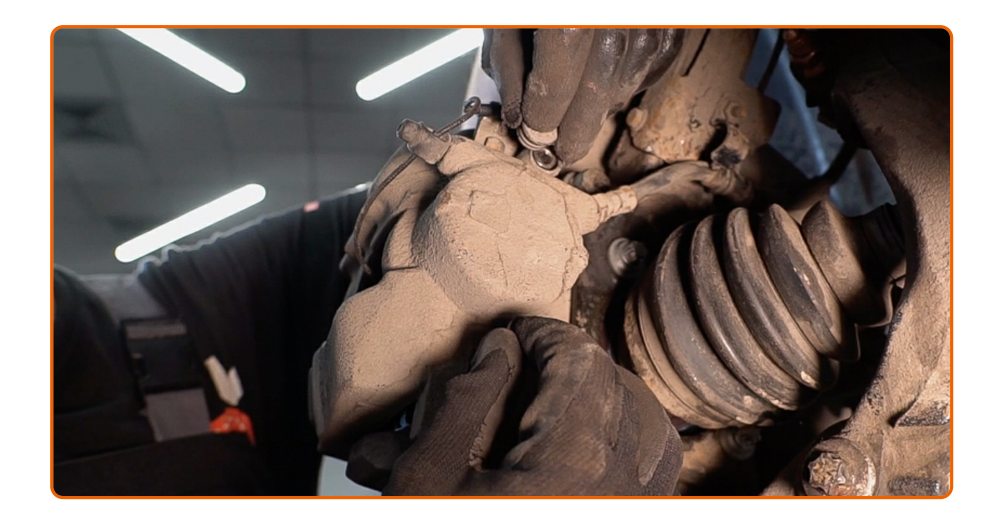
Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 35 Nm torque.

52



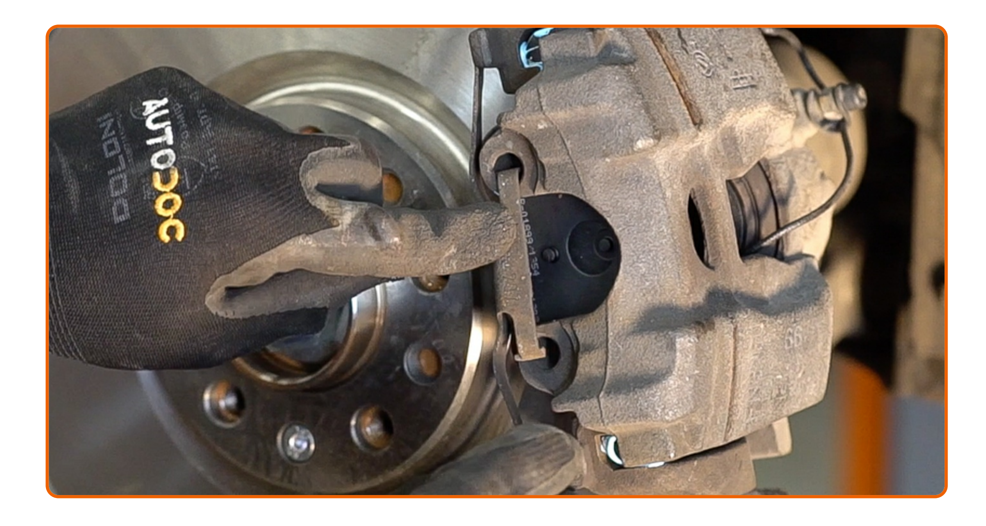
Connect the brake pad wear sensor plug.

53



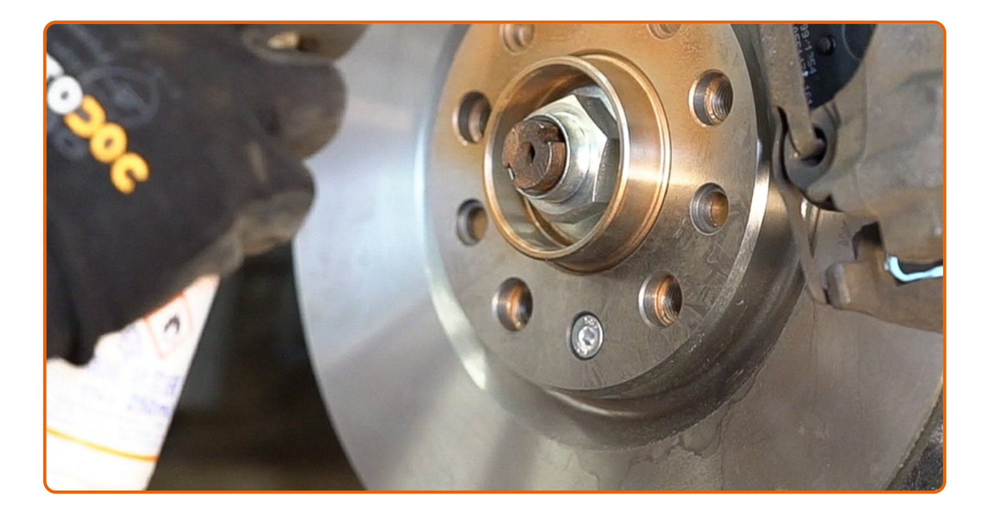
Install the dust boot caps of the brake caliper guide pins.

54



Install the brake caliper retaining spring. Use a crowbar.

55



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

56



Install the wheel.

Replacement: wheel bearing – Alfa Romeo 159 Sportwagon. Tip from AUTODOC:

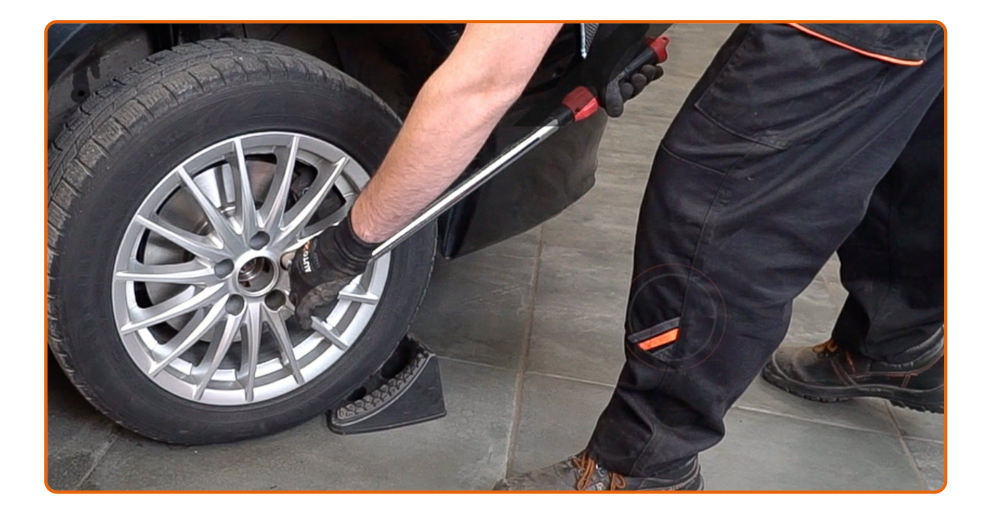
- To avoid injury, hold up the wheel when screwing in the fastening bolts.

57



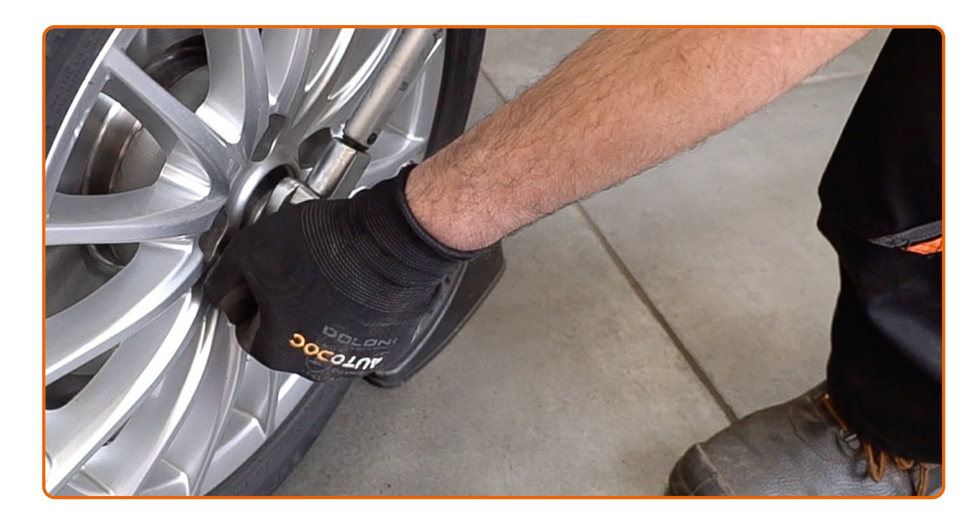
Screw in the wheel bolts. Use wheel impact socket #17.

58



Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.

59



Tighten the bolt connecting the drive shaft to the wheel hub. Use a drive socket #36. Use a torque wrench. Tighten it to 110 Nm torque.

60



Remove the jacks and chocks.

DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO

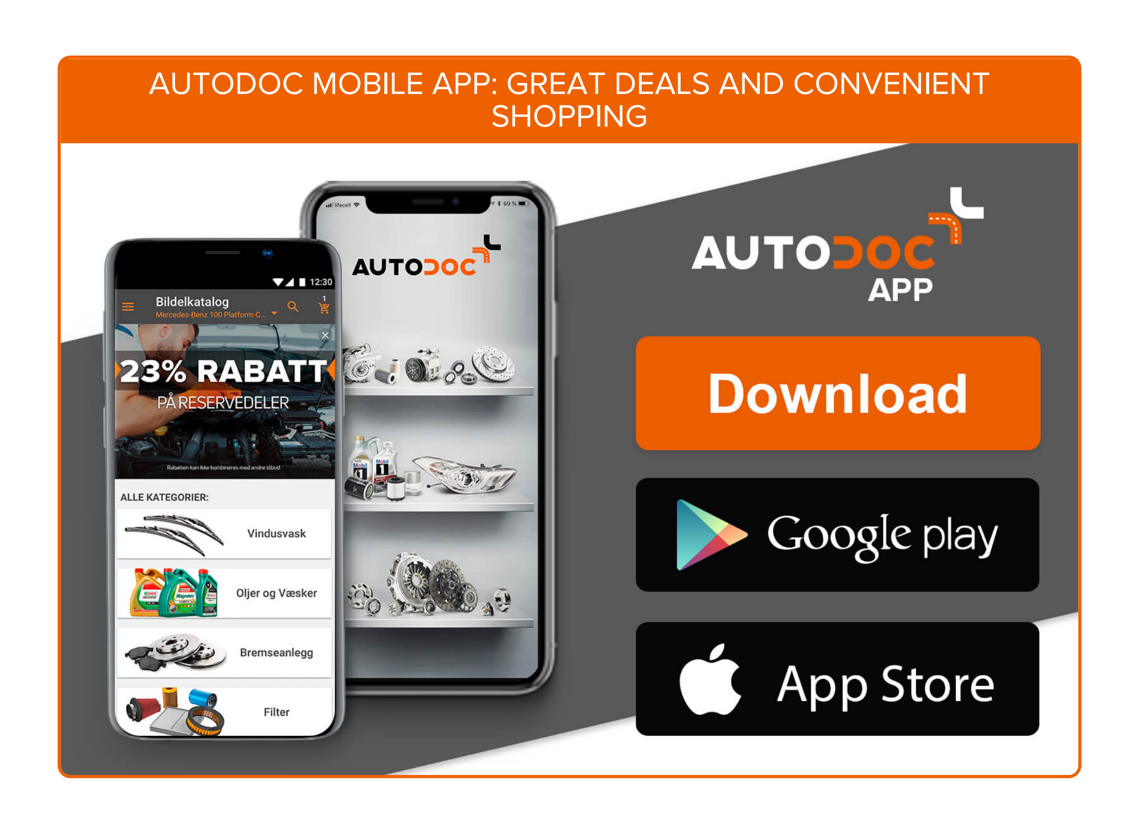


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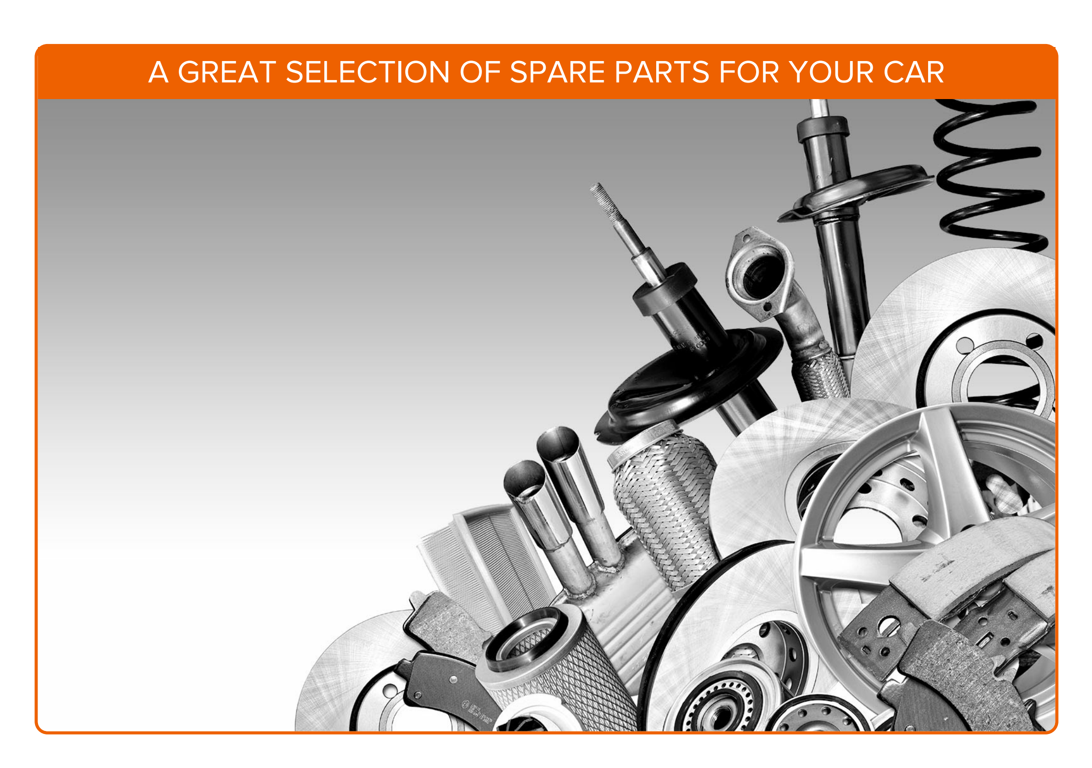


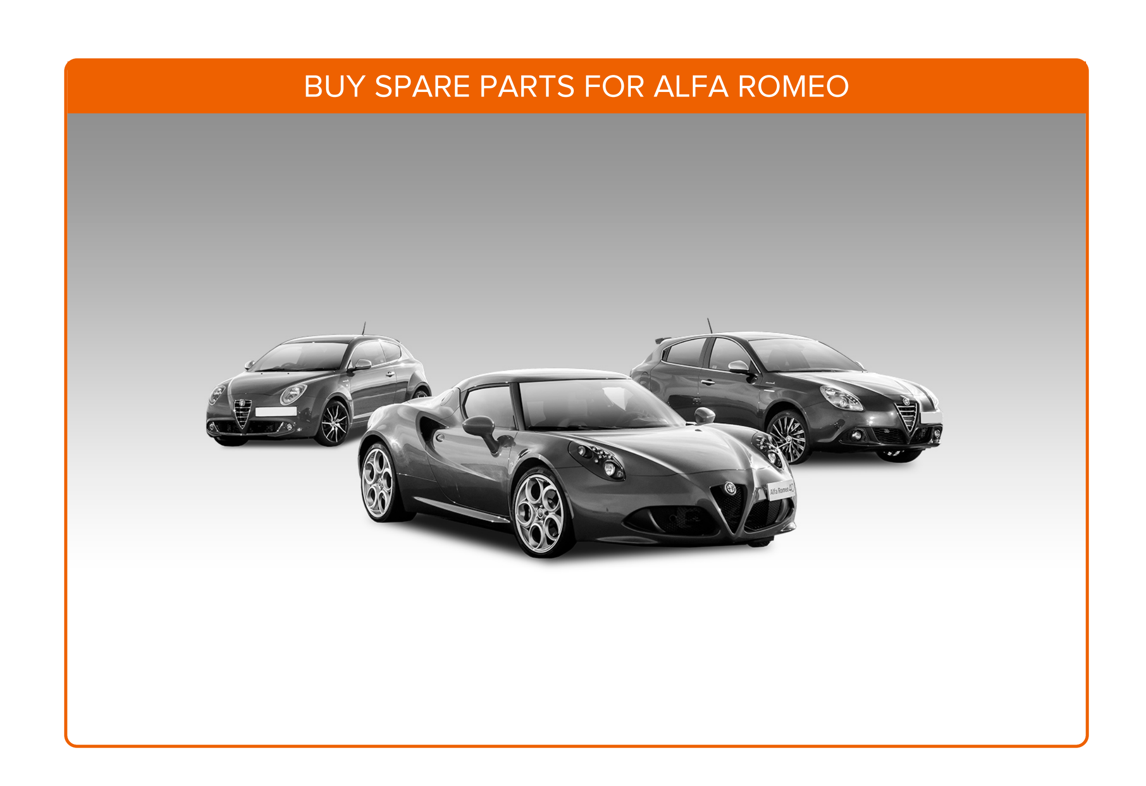
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